

# ABSTRACT

A miniature fan or micro-fan (200) features a fan housing (150) through which a substantially annular air duct extends in the axial direction, there being arranged in a central region of the air duct an electronically commutated external-rotor motor (202) whose external rotor, equipped with at least one permanent magnet (86), carries an impeller wheel (204) that is arranged rotatably in the air duct. A circuit board configuration (168) has a motor region that is arranged in the central region of the air duct and carries at least one galvanomagnetic rotor position sensor that is controllable by the magnetic field of the permanent magnet (86) provided on the external rotor. The board has a component region for the reception of electronic components (170) of the external-rotor motor, which component region is arranged substantially outside the air duct, and which comprises a bridge portion, via which the motor region of the circuit board configuration is electrically connected to the component region (168).